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Microstructural evolution in additive manufacturing with high power lasers

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Stellingen

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MICROSTRUCTURAL EVOLUTION IN ADDITIVE MANUFACTURING WITH HIGH POWER LASERS

Deposition, Characterisation and Performance

Ondřej Nenadl

January 6th 2017

1. An applied physicist does not have *problems* but *challenges* and solves them in a way society *can* understand.
2. The universe adapts to the questions you ask.
3. If physics is related to making approximations, the most elegant solutions are the ones that are the most simple.
4. “For a successful technology, reality must take precedence over public relations, for nature cannot be fooled.”
– *Richard Feynman*
5. If the universe is infinite it follows that no absolute frame of reference exists and therefore, when searching for the ultimate nature of reality one has to transcend dualism.
6. There are many levels of understanding. For practical applications superficial understanding is often enough.
7. “The closer your experiments match your theoretical predictions and vice versa , the further away you are from the Nobel prize.”
– *Jeff Th. M. DeHosson (on the occasion of Nobel Prize Chemistry 2016 for Ben L. Feringa, University of Groningen)*
8. Since entropy always increases, more ‘chaos’ could be expected in the future on a global scale. This will remain the case until a critical mass is reached resulting in a cataclysmic event.
9. Emptiness is not empty; this is not a contradiction.
10. Possibility is the conflict between expectation and reality.
11. “Management in society flourishes like a mushroom. It grows in the dark.”
– *Jeff Th. M. DeHosson*
12. Overambitious administrators and managers from proposition 11 are the bane of creative innovation.
– correspondence with *Jeff Th. M. DeHosson*
13. There is no luck and there are no accidents, only a statistical bias.